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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,667	08/25/2003	Makoto Sawada	KIOI:032	2144
75	590 06/06/2005		EXAM	IINER
ROSSI & ASSOCIATES			CHARLES, MARCUS	
P.O. Box 826 Ashburn, VA 20146-0826			ART UNIT	PAPER NUMBER
			3682	
			DATE MAIL ED. 06/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>`.</u>		Application No.	Applicant(s)			
Office Action Summary		10/647,667	SAWADA ET AL.			
		Examiner	Art Unit			
	•	Marcus Charles	3682			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with the c	correspondence address			
THE - External after - If the - If NC - Failu	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of period for reply is specified above, the maximum statutory perion reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	1. 1.136(a). In no event, however, may a reply be tin eply within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	nely filed is will be considered timely. It he mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>25 August 2003</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims		•			
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) <u>1-5</u> is/are pending in the application 4a) Of the above claim(s) is/are withdr Claim(s) is/are allowed. Claim(s) <u>1-5</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.				
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>25 August 2003</u> is/are: a)□ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment	c(s)					
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 No(s)/Mail Date <u>3-29-2004</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/647,667

Art Unit: 3682

DETAILED ACTION

This is the first action relating to serial application number 10/667,667 filed 04-24-2003. Claims 1-5 are currently pending.

Drawings

1. The examiner has accepted the drawing filed with this application as formal drawing.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "type" renders the claims indefinite because it is not clear as to what type is the term referring to.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this
Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipate by Sakakibara et al. (5,924,450). Sakakibara et al. discloses a CVT comprising a belt (12) entrained around a primary pulley (11) and a secondary pulley (12),

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each including a primary and secondary pressure and a respective line pressure (not shown), a control unit determines the pressure in primary base on the load torque which controls the line pressure for controlling the primary pulley.

Sakakibara et al. also disclose the line pressure from the primary valve regulator is send to the hydraulic actuator so that the belt grasping force corresponding to the load torque is applied and the adjusted pressure from the control unit is valve sent to the hydraulic actuator. Therefore, it is apparent when the load torque varies the line pressure is controlled to increase pressure so as to increase the load torque. It should be noted that the speed sensors (101/102) which detects the speed of the shaft and pulleys, would inherently detects the reverse rotation of the pulleys.

In claim 2, it apparent that the control input torque to calculated according to the claimed invention.

In claim 3-4, the claimed invention is inherent in the transmission of Sakakibara et al.

In claim 5, it is apparent that at the time of the reverse rotation that the output torque of the engaging to be smaller than the torque capacity of the primary pulley.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. JP (02-159,448), JP (06-137400), JP (2003-130213), JP (2003-130215), JP(06-17923), JP (2001-349418), Pfleger et al.(6,677,685), Taniguchi et al.(6,443,871), Tsai et al. (6,290,620) and Tsai (6,179,739) disclose

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a CVT and a hydraulic system with a control unite for controlling the clamping force of the pulley sheaves.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (757) 272-7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (571) 272-7099. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marcus Charles Primary Examiner Art Unit 3682 May 26, 2005